

**Notice of Allowability**

Application No.

10/770,478

Examiner

Hoang Ngo

Applicant(s)

NAKAGAWA ET AL.

Art Unit

2852

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to \_\_\_\_\_.
2. ☒ The allowed claim(s) is/are 1-18.
3. ☒ The drawings filed on 04 February 2004 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 6/7/04,9/1/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

## DETAILED ACTION

### *Examiner's Amendment*

1. The application has been amended as follows:

Claim 1, line 17, the term, "r1/R2", has been changed to –R1/R2—

Claim 12, line 1, the term, "12.1." has been changed to –12.--

### *Allowable Subject Matter*

2. Claims 1-18 are allowed.
3. The following is an examiner's statement of reasons for allowance:

Regarding claims 1-11, the primary reasons for allowance are an apparatus having a developing apparatus comprising a developer carrying member, for carrying a developer to a developing portion; said developer carrying member including an electroconductive base and a resistance layer provided thereon; a developer-feeding member for being supplied with a voltage to apply the developer to said developer carrying member; wherein a surface moving speed of said developer carrying member  $V_p$  (mm/sec), a resistance  $R_1$  ( $\Omega$ ) or said developer carrying member when an electric current applied said developer carrying member is  $0.04V_p$  ( $\mu A$ ), and a resistance  $R_2$  ( $\Omega$ ) of said developer carrying member when the electric current applied to said developer carrying member is  $4V_p$  ( $\mu A$ ), satisfy:

$$R_1/R_2 < 15.$$

The above limitations are contained in the above claims but are not taught or suggested by the prior art.

Art Unit: 2852

Regarding claims 12-18, the primary reasons for allowance are an apparatus having a developing apparatus comprising a developer carrying member for carrying a developer to a developing portion, said developer member including an electroconductive base and a resistance layer provided thereon; a developer-feeding member for being supplied with a voltage to supply the developer to said developer-carrying member; wherein a surface moving speed  $V_p$  (mm/sec) of said developer carrying member; a potential  $V_1$  (V) of said base layer when an electric current applied to said base layer is  $4V_p$  ( $\mu A$ ), and a surface potential  $V_2$  of said developer carrying member at said developing portion satisfy:

$$0.8 < V_2 < V_1 < 1.2.$$

The above limitations are contained in the above claims but are not taught or suggested by the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Prior Art***

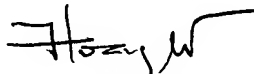
Uehara et al (U.S 6,522,842), Kakeshita (U.S. 6,647,225), discloses other examples of the developing apparatus.

***Inquiry***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoang Ngo whose telephone number is (571) 272-2138. The examiner can normally be reached on 6:00am - 2:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Arthur Grimley can be reached on (571) 272-2136. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Hoang Ngo  
Primary Examiner  
Art Unit 2852

Hn  
05/24/2005